

purposes of limitation. Descriptions of features or aspects in each example are to be considered as being applicable to similar features or aspects in other examples. Suitable results may be achieved if the described techniques are performed in a different order, and/or if components in a described system, architecture, device, or circuit are combined in a different manner, and/or replaced or supplemented by other components or their equivalents. Therefore, the scope of the disclosure is defined not by the detailed description, but by the claims and their equivalents, and all variations within the scope of the claims and their equivalents are to be construed as being included in the disclosure.

What is claimed is:

1. A vehicle message broadcasting method, comprising:
  - determining whether a transmission power set for broadcasting a message by a communication device using a first wireless communication scheme is to be adjusted, the first wireless communication scheme being used to transmit a safety message (SM);
  - broadcasting a safety message (SM) using the first wireless communication scheme with a transmission power based on a result of the determining; and
  - broadcasting at least one additional message including information included in the SM and/or information related to the SM using a second wireless communication scheme having a wider coverage than a coverage of the first wireless communication scheme.
2. The vehicle message broadcasting method of claim 1, wherein the first wireless communication scheme is a dedicated short-range communications (DSRC) scheme based on an Institute of Electrical and Electronics Engineers (IEEE) 802.11p standard.
3. The vehicle message broadcasting method of claim 1, wherein the first wireless communication scheme is a wireless communication scheme based on an IEEE 802.11p standard, and
  - wherein the second wireless communication scheme is a cellular communication scheme.
4. The vehicle message broadcasting method of claim 1, wherein the first wireless communication scheme and the second wireless communication scheme are wireless communication schemes based on an IEEE 802.11p standard, and
  - wherein a frequency channel of the first wireless communication scheme is different than a frequency channel of the second wireless communication scheme.
5. The vehicle message broadcasting method of claim 1, wherein the at least one additional messages include an additional message that includes same information as information included in as the SM.
6. The vehicle message broadcasting method of claim 1, wherein the at least one additional message include an event message (EM) generated in response to an event related to a vehicle and related to the SM.
7. The vehicle message broadcasting method of claim 6, wherein the EM comprises location information corresponding to a location of the event.
8. The vehicle message broadcasting method of claim 1, further comprising generating the SM,
  - wherein the generating of the SM comprises:
    - acquiring information related to a vehicle; and
    - generating the SM based on the information related to the vehicle.

9. The vehicle message broadcasting method of claim 8, wherein the generating of the SM further comprises:
  - detecting an event related to the vehicle; and
  - further including information about the event to the SM and generating the SM in response to the event being detected.
10. The vehicle message broadcasting method of claim 1, further comprising generating the additional message, wherein the generating of the additional message comprises:
  - detecting an event occurring in the vehicle; and
  - generating the additional message based on the detected event.
11. The vehicle message broadcasting method of claim 1, wherein the determining of whether the transmission power is to be adjusted comprises:
  - calculating a transmission success rate of the SM transmitted using the first wireless communication scheme; and
  - determining to adjust the transmission power lower in response to the transmission success rate being determined to be less than a threshold success rate.
12. The vehicle message broadcasting method of claim 1, wherein the determining of whether the transmission power is to be adjusted comprises determining to adjust the transmission power based on determined properties of at least one externally received SM.
13. The vehicle message broadcasting method of claim 12, wherein the determining to adjust the transmission power based on the at least one external SM comprises, in response to a number of the neighboring vehicles identified by the plurality of external SMs is determined to be equal to or greater than a preset threshold, determining to adjust the transmission power lower.
14. The vehicle message broadcasting method of claim 1, further comprising receiving a guide from a road side unit (RSU),
  - wherein the determining of whether the transmission power is to be adjusted comprises determining, based on the guide, whether the transmission power is to be adjusted.
15. A vehicle message broadcasting apparatus, comprising:
  - a processor configured to determine whether a transmission power of a first wireless communication scheme is to be adjusted, the first wireless communication scheme being used to transmit a safety message (SM); and
  - a communicator configured to broadcast the SM using the first wireless communication scheme with the adjusted transmission power and to broadcast at least one additional message using a second wireless communication scheme.
16. A vehicle message receiving method, comprising:
  - receiving a safety message (SM) comprising information related to a vehicle using a first wireless communication scheme;
  - receiving an additional message including information included in or related to the SM using a second wireless communication scheme having a different property from the first wireless communication scheme; and
  - outputting information included in at least one of the SM and the additional message.
17. The vehicle message receiving method of claim 16, wherein the first wireless communication scheme is a dedi-